Scope of test task.

I. REST Service.
II. Integration tests for service operations.
III. Documentation

REST service.

Required tools and technologies: VS2015, WCF, Entity Framework, SQL Server Compact

REST service is a console application that populates REST operations to manage 'User' entities that are stored in DB.

User entity consist of two properties:

a. NickName (string, primary key, alphanumeric).
b. FullName (string).

Required REST Operations are:

Return list of users: GET /Services/TestService/Users
Get user information: GET / Services/TestService/Users/{NickName}
Add user: POST /Services/TestService /Users *(Body contains user information)*
Delete user: DELETE /Services/TestService/Users/{NickName}
Update user: PUT /Services/TestService/Users/{NickName}

Message format is JSON or XML (choose your preferred format).

User records persistent in DB.

Service creates empty DB during startup if DB doesn't exists.

Service is executable from build output folder.

Integration tests

Required tools and technologies: VS2015, NUnit.

Tests are responsible to manage test data (create\delete test data) and service state (launch and stop

Test Automation project(s) included to service solution.

All implemented integration tests are independent and repeatable.

Tests are executable from Visual Studio and from NUnit console command line.

Documentation.

Documentation contains information that can help to analyze proposed solution, including but not limited to

- Test cases that were implemented (automated)
- Steps how to execute test case (if there any unusual steps needed)
- Pros and cons of implemented approach
- List of possible improvements
- Etc.